



## PLTW Computer Science and Software Engineering 2015-2016 Scale-Up Program

**Overview:** Funding will assist educators with implementing Project Lead The Way's (PLTW) Computer Science and Software Engineering (CSE) course with the flexibility to fit the course within either an applicant's existing PLTW Engineering program (PLTW Engineering: CSE) or as a start to the PLTW Computer Science program (PLTW Computer Science: CSE).

**Grade Levels:** 9-12

### Program Summary

**Project Lead The Way** (PLTW) is a nonprofit organization and the nation's leading provider of K-12 STEM curricular programs. PLTW's world-class, activity-, project-, and problem-based curriculum and high-quality educator professional development model, combined with an engaged network of educators and corporate partners, help students develop the skills needed to succeed in our global economy. PLTW's rigorous and relevant curriculum is collaboratively developed and consistently reviewed and improved by PLTW staff, teachers, university educators, industry experts, and school administrators. It leverages an innovative, project-based approach, fostering collaboration and building critical thinking skills.

### What does the project provide?

- Funding will assist educators in implementing Project Lead The Way's Computer Science and Software Engineering (CSE) course, which has the flexibility to fit within either the PLTW Engineering or the PLTW Computer Science program. As such, PLTW will offer two Scale-Up funding options for implementing the CSE course:
  - PLTW Engineering: CSE — As a specialization course in the PLTW Engineering program, educators will be provided tuition for Computer Science and Software Engineering (CSE) Core Training.
  - PLTW Computer Science: CSE — As part of the PLTW Computer Science program, educators will be provided tuition for Computer Science and Software Engineering (CSE) Core Training **AND** the annual PLTW Computer Science \$2,000 participation fee for the 2015-2016 school year.
- Computer Science and Software Engineering (CSE) Core Training will be for one educator at:
  - Iowa State University (Ames, IA) on Monday, July 6—Friday, July 17
  - University of Iowa, Iowa City, Iowa on Monday, July 20—Friday, July 31

### What is required by the applicant in order to implement this program?

- Review the [PLTW Register Now](#) webpage and understand the [PLTW Computer Science Program Requirements](#).
- If not already registered, the applicant must register through the PLTW online registration process. Select a District Administrator and School Administrator (for each school) to serve as the main points of contact with PLTW and be responsible for providing and maintaining accurate data and information. Upon registration, the District Administrator will receive an email with a link to the [PLTW Agreement](#). Registration does not commit the school district or school to implement PLTW.
- Review the PLTW agreement with the school board, superintendent, and legal department to ensure all parties are aware of district and school responsibilities. After obtaining the authorized signatures, email the agreement to the PLTW School Support Team.
- Execute an Applicant Agreement with PLTW as a part of the Scale-Up Award before attending Core Training.
- Select an educator to instruct the PLTW Computer Science and Software Engineering (CSE). Educators should be excited to teach a project-based curriculum and meet the requirements of the PLTW agreement. Once the educator is selected, the School Administrator will register the educator in the PLTW database.
- Register for Core Training at the University of Iowa College of Engineering or Iowa State University. Once the educator is added to the PLTW database, they can register for CSE Core Training (two-week training). Educators must successfully complete all required online PLTW Computer Science Readiness Training modules prior to attending Core Training. Educators must complete and pass Core Training for every PLTW Computer Science course they wish to instruct.
- Purchase necessary equipment and supplies. Review the provided PLTW Computer Science Purchasing Manual and order the necessary items for the course. Start the ordering process early to ensure the lab is fully equipped before the new school year.

**Website to View Program and Standards Alignment:** <http://alignment.pltw.org/site/index>

**Program Video:** <https://www.youtube.com/watch?v=xJGjNRceHa0&list=PLcCTPHuIP75L4OB5bdEiFmryWewqxbXRT&index=9>